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File: DWPI

May 30, 1995

DERWENT-ACC-NO: 1995-228629

DERWENT-WEEK: 200116

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TITLE: Ginseng saponin prepn. - comprises extracting Panax ginseng with polar solvent, and eliminating phenol substance by treating extracts with neutral iron salts soln.

PATENT-ASSIGNEE:

ASSIGNEE

CODE

POLA CHEM IND INC

POKK

PRIORITY-DATA: 1993JP-0288080 (November 17, 1993)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> JP 07138175 A	May 30, 1995		008	A61K035/78
<input type="checkbox"/> JP 3142197 B2	March 7, 2001		008	A61K035/78

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 07138175A	November 17, 1993	1993JP-0288080	
JP 3142197B2	November 17, 1993	1993JP-0288080	
JP 3142197B2		JP 7138175	Previous Publ.

INT-CL (IPC): A23L 1/30; A61K 7/00; A61K 35/78; B01D 15/00; B01D 15/08

ABSTRACTED-PUB-NO: JP 07138175A

BASIC-ABSTRACT:

Prepn. of ginseng saponin comprises (1) extracting Panax ginseng with polar solvent, and (2) eliminating phenol substance by treating the extracts with iron salts soln. adjusted to neutral. Also claimed is the compsn. contg. Panax ginseng obtd. by the method.

USE - Phenol substance is efficiently eliminated. The compsn. in a form of medicine, cosmetics or food can be administered over a long period of time safely without causing taste problem.

Pref., the extracts which are treated with iron salts soln. are further purified by column chromatography using styrene divinylbenzene carrier.

Crude or dry roots of Panax ginseng are finely cut, and dipped in 1-100 eq. vol. of

polar solvent at room temp. for several days or at near b.pt. for several hrs. with stirring. The extracts are filtered to eliminate undissolved substance, or if necessary, the solvent is eliminated by concn. in vacuo. The extracts are dissolved in polar solvent again, and iron salts soln. adjusted to neutral are added, followed by stirring at room temp. to precipitate phenol substance, which are eliminated by filtration. Pref. polar solvent is aq. alcohol. Pref. iron salt is FeCl₂. Example of reagent to adjust the soln. to neutral is aq. ammonia. Panax ginseng saponin which does not contain phenol substance is pref. further purified by column chromatography using styrene-divinyl benzene resin such as Diaion HP-20 as a carrier. The compsn. is formulated into (1) medicine such as tablets, powder, liquid or injection; (2) cosmetics such as lotion, milky lotion, cream, aq. gel, foundation or control colour; or (3) food as general food.

The daily dosage as a medicine is 10-500 mg for oral admin., 1-100 mg for injection and 0.1-10 wt.% for external prepn. The daily dosage for an adult in a form of food is 10-500 mg.

In an example, the dry roots of Panax ginseng (1kg) were finely cut, and 80% aq. ethanol soln. (2L) was added, and refluxed with heating for 2 hrs. The obtd. soln. was filtered to remove impurity, and conc. to give dry extract substance, which was dissolved in 50% aq. ethanol (1L). Then FeCl₂ (40g) dissolved in 50% aq. ethanol (400ml) was added, and pH was adjusted to 7 using ammonia, and the whole was stirred at room temp. for 12 hrs. The obtd. soln. was filtered to remove impurity, and dried in vacuo. Thus obtd. dry solid substance was dissolved in 20% aq. ethanol, and passed through a column filled with Diaion HP-20. Then 20% aq. ethanol was passed through to wash the column, and 80% aq. ethanol was passed through to elute Panax ginseng saponin. The solvent was eliminated to obtain 39.6g of Panax ginseng saponin as pale yellow amorphous prod.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: GINSENG SAPONIN PREPARATION COMPRISE EXTRACT PANAX GINSENG POLE
SOLVENT ELIMINATE PHENOL SUBSTANCE TREAT EXTRACT NEUTRAL IRON SALT SOLUTION

DERWENT-CLASS: B04 D13 D21

CPI-CODES: B04-A10F; D03-H01C; D08-B10;

CHEMICAL-CODES:

Chemical Indexing M1 *01*
Fragmentation Code
M423 M720 M903 N137 N161 P714 Q211 Q220 V400 V404
V406

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-105327

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